# SECTION 2800 TEMPORARY TRAFFIC CONTROL

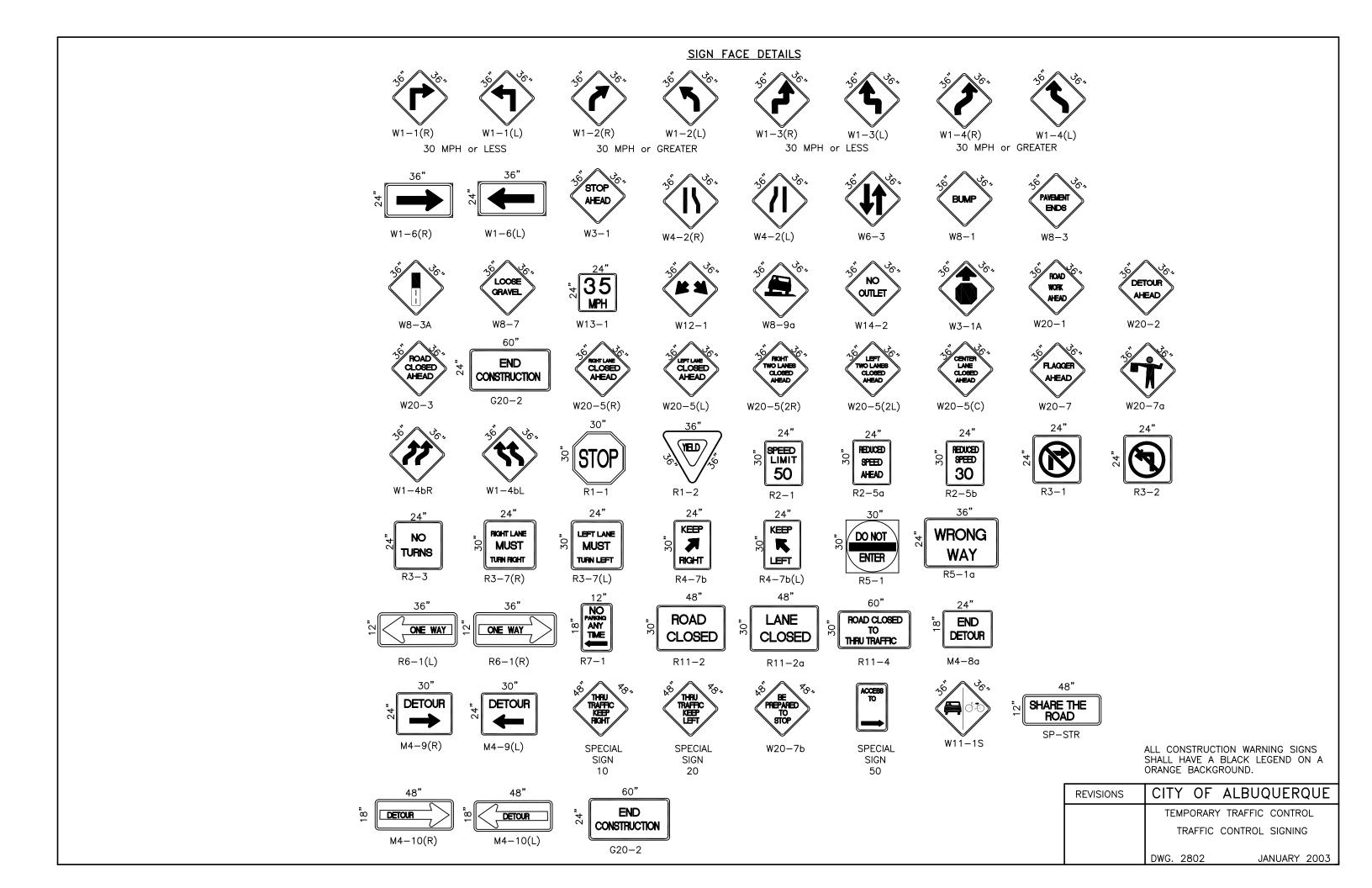
DWG.	TITLE			
2801	CENIED AL NOTES			
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	TRAFFIC CONTROL SIGNING			
2803	CONSTRUCTION TRAFFIC CONTROL			
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#### TEMPORARY TRAFFIC CONTROL GENERAL NOTES

- CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT AT LEAST TWO WORKING DAYS BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING THAT A PERMIT SHALL BE OBTAINED WITHIN 24 HOURS.
- 2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.
- 3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.
- 4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.
- 5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.
- 6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
- 7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SETUP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA), OR EQUIVALENT, CERTIFIED WORK SITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORK SITE TRAFFIC SUPERVISOR OR EQUIVALENT.
- 8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.
- 9. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.
- 10. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCH SECTION 6A-4.
- 11. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.
- 12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.
- 13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.
- 14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN AND BICYCLE TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.
- 15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENCES AT ALL TIMES.

- 17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.
- 18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
- 19. 48 HOURS PRIOR TO OCCUPYING OR CLOSING A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.
- 20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.
- 21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.
- 22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
  - 1) STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
  - 2) THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
  - 3) SECTIONS 19, 1200, AND 2800 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.
- 23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.
- 24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW/CLEAN CONDITION, WASHING OF EQUIPMENT IS INCIDENTAL TO ITS PLACEMENT AND MAINTENANCE.
- 25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE TEMPORARY TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.
- 26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.
- 27. CONTRACTOR SHALL MAINTAIN A GRAFFITI FREE WORK SITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.

REVISIONS	CITY OF	ALBUQUERQUE	
	TEMPORAR	Y TRAFFIC CONTROL	
	GENERAL NOTES		
	DWG. 2801	JANUARY 2003	



# WARNING LIGHT 8" TO 12" 8" TO 12" 8" TO 12" TYPE III BARRICADE BASE VARIES **CONES** NOTE: STRIPES SHALL SLOPE DOWNWARD TOWARD DIRECTION OF TRAVEL WARNING LIGHT 8" TO 12" 8" TO 12" TYPE II BARRICADE COLLAPSIBLE NOTE: STRIPES SHALL SLOPE DOWNWARD TOWARD DIRECTION OF TRAVEL 18" MIN. WARNING LIGHT

BARREL

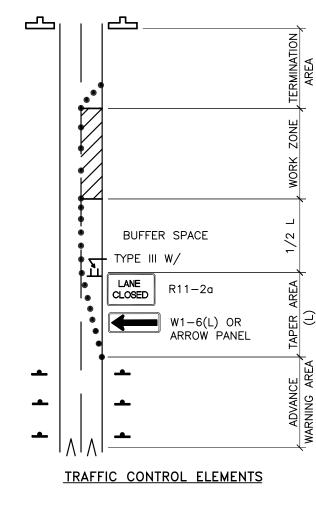
TYPE I BARRICADE COLLAPSIBLE

STRIPES SHALL SLOPE DOWNWARD

TOWARD DIRECTION OF TRAVEL

8" TO 12"

WARNING LIGHT -

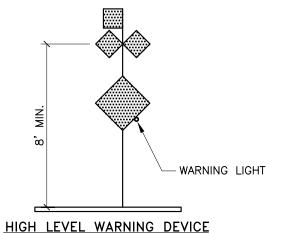


8" TO 12"

VERTICAL PANEL

WARNING

LIGHT



# **LEGEND**

WORK AREA

BARRICADE - TYPE I, TYPE II, VERTICAL PANEL, OR BARREL

BARRICADE - TYPE III

VERTICAL PANEL

WARNING SIGN

DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET

FLAGMAN POSITION

SPACING BETWEEN BARRICADES - A DISTANCE MEASURED IN FEET EQUAL TO THE STREET LIMIT OF THE STREET

TAPER LENGTH - SEE CHART BELOW

THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

## TAPER REQUIREMENT

SPEED LIMIT (MPH)	TAPER LENGTH(L) (FEET)		MINIMUM NUMBER OF	MAXIMUM DEVICE SPACING IN FEET		
	10' LANE	11' LANE	12' LANE	DEVICES FOR TAPER	ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

# TAPER CRITERIA

TYPE OF TAPER	TAPER LENGTH	RECOMME ADVANCE	NDED SIGN SPACING(D) FOR WARNING SIGN SERIES
UPSTREAM TAPER: MERGING TAPER SHIFTING TAPER	L MINIMUM 1/2 L MINIMUM	SPEED MILES PER HOUR	MINIMUM DISTANCE IN FEET  BETWEEN FROM LAST  SIGNS SIGN TO TAPER
SHOULDER TAPER TWO-WAY TRAFFIC TAPER	1/2 L MINIMUM 100 FEET MAXIMUM	0-20 25-30	10 X SPEED LIMIT 10 X SPEED LIMIT 10 X SPEED LIMIT 10 X SPEED LIMIT
DOWNSTREAM TAPERS  TAPER LENGTH COMI	100 FEET PER LANE PUTATION	30-35 40-45	10 X SPEED LIMIT 10 X SPEED LIMIT 10 X SPEED LIMIT
SPEED LIMIT 40 MPH OR LESS	$L = \frac{WS}{60}^2$	50-60	10 X SPEED LIMIT 10 X SPEED LIMIT

 $L = W \times S$ 

S = POSTED SPEED OR OFF-PEAK

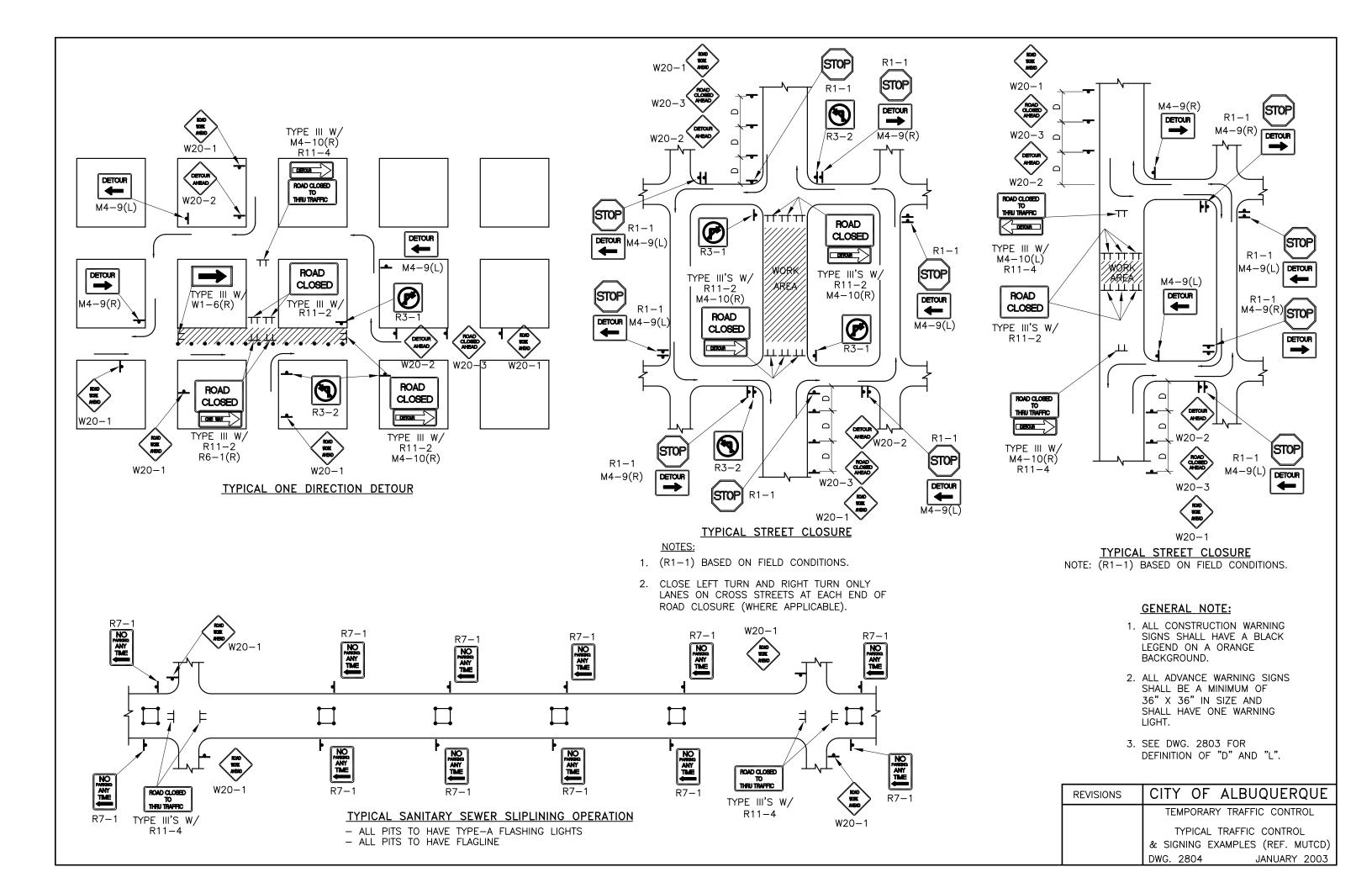
CITY OF ALBUQUERQUE REVISIONS TEMPORARY TRAFFIC CONTROL CONSTRUCTION TRAFFIC CONTROL STANDARDS DWG. 2803 JANUARY 2003

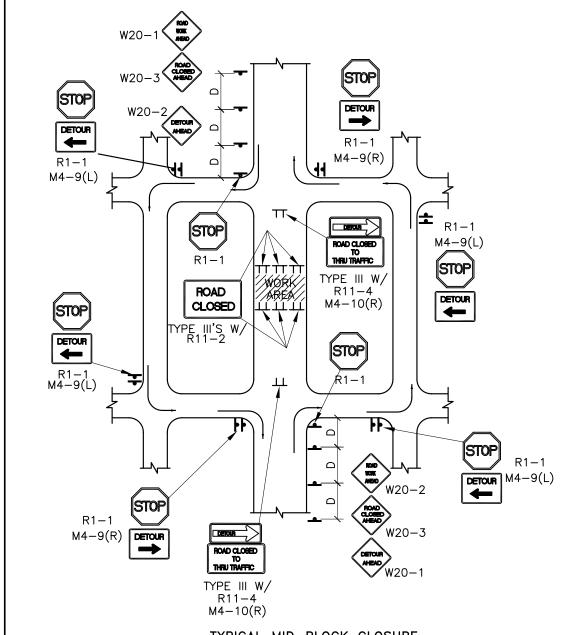
L = TAPER LENGTH

40 MPH OR GREATER

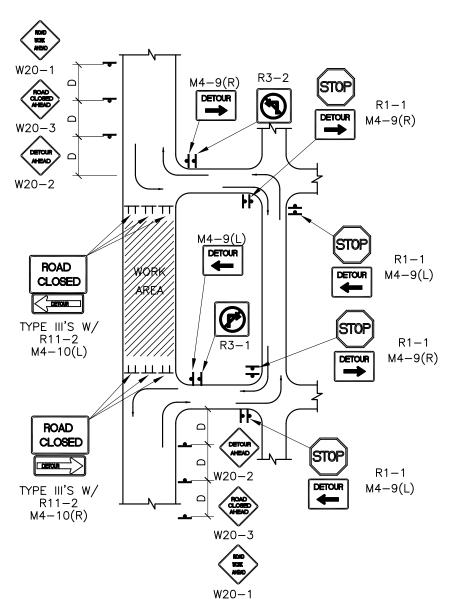
W = WIDTH OF OFFSET IN FEET

85-PERCENTILE SPEED IN MPH





TYPICAL MID-BLOCK CLOSURE NOTE: (R1-1) BASED ON FIELD CONDITIONS.



## TYPICAL STREET CLOSURE

- NOTE: 1. (R1-1) BASED ON FIELD CONDITIONS.
- CLOSE LEFT TURN AND RIGHT TURN ONLY LANES ON CROSS STREETS AT EACH END OF ROAD CLOSURES (WHERE APPLICABLE).

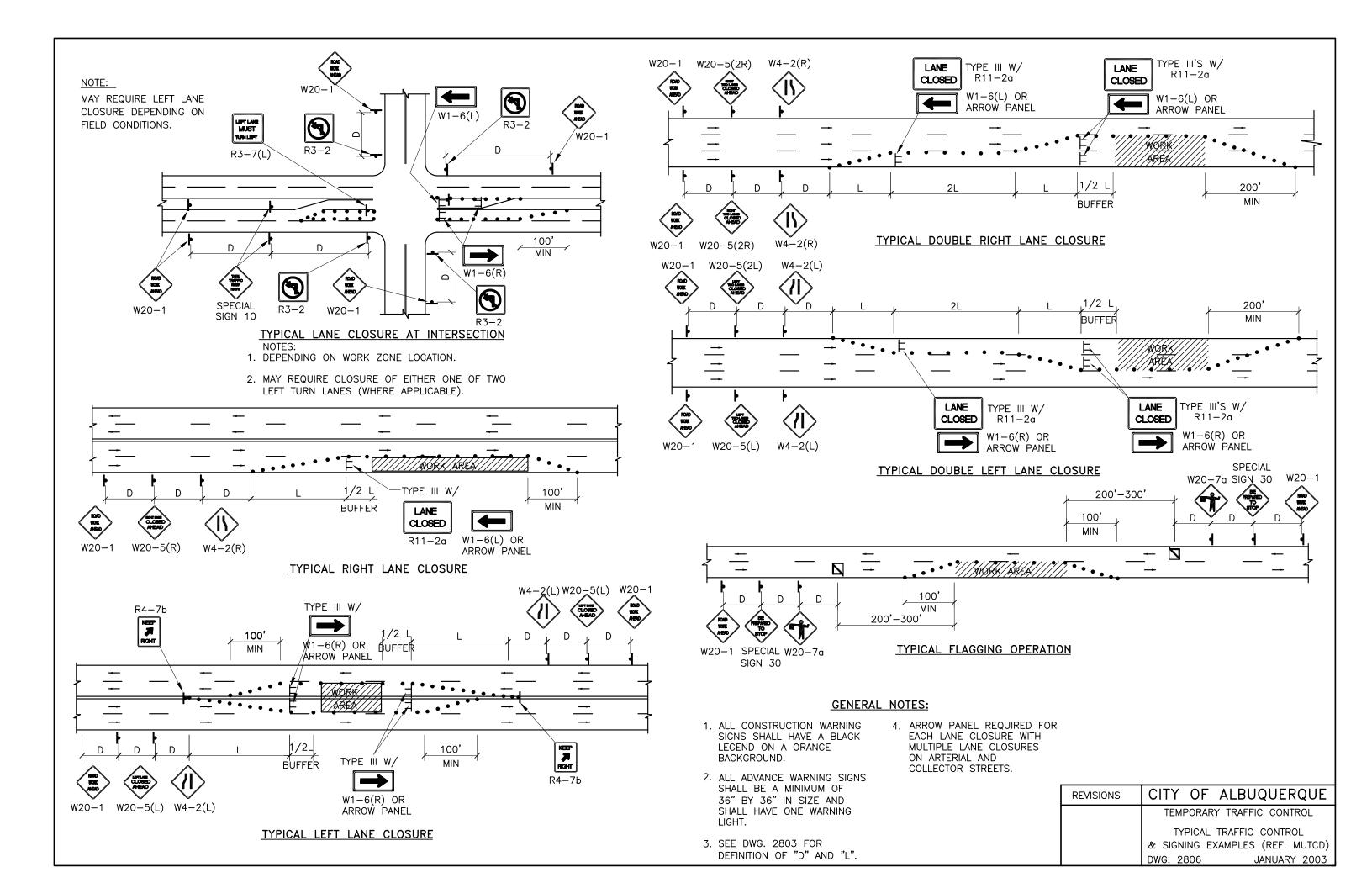
## ROMD WORK AMEND W20 - 1M4-9(R)ROAD CLOSED ATEAD STOP DETOUR R1 - 1DETOUR M4-9(R)W20 - 3DETOUR AHEAD W20-2ĪΚ TCOSTOUR ROAD CLOSED TO THRU TRAFFIC R1 - 1DETOUR M4-9(L) TYPE III W/ R11-4 M4-10(L)ROAD CLOSED TO THRU TRAFFIC MORK TYPE III W/ AREA R11-4 ROAD CLOSED TYPE III'S W M4 - 9(L)DETOUR **—** STOP DETOUR R1 - 1ROAD CLOSED DETOUR M4-9(R)TO THRU TRAFFIC $\rightarrow$ $-\!\!\perp\!\!\perp$ TYPE III W/ R11-4 M4-10(R)DETOUR AHEAD W20-2 [STOP] R1 - 1DETOUR M4-9(L) W20 - 3TOMO WORK MEND W20 - 1TYPICAL STREET CLOSURE

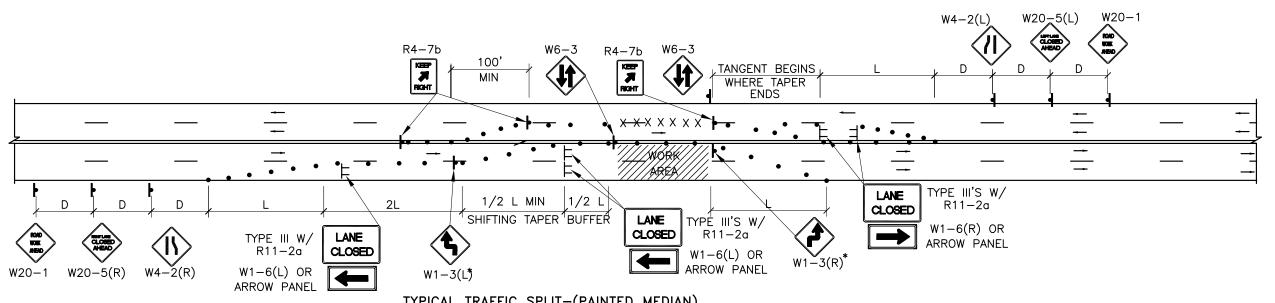
# **GENERAL NOTE:**

- 1. ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.
- 2. ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF 36" X 36" IN SIZE AND SHALL HAVE ONE WARNING LIGHT.
- 3. SEE DWG. 2803 FOR DEFINITION OF "D" AND "L".

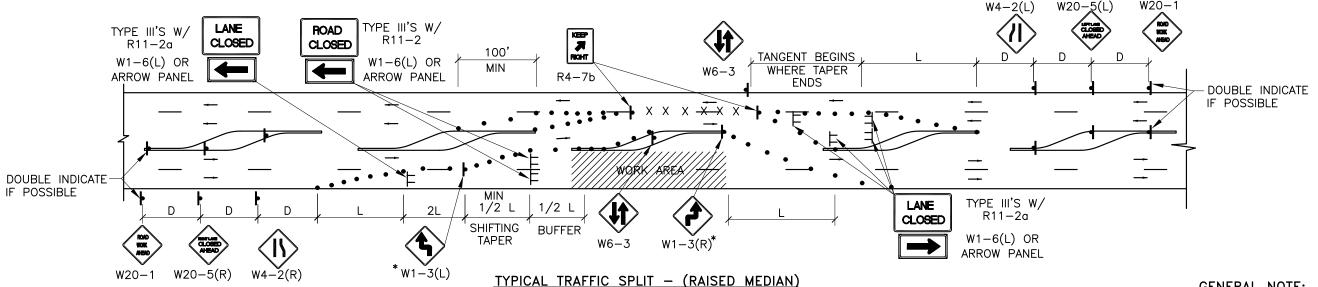
NOTE: (R1-1) BASED ON FIELD CONDITIONS.

REVISIONS	CITY OF ALBUQUERQUE			
	TEMPORARY TRAFFIC CONTROL			
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TYPICAL TRAFFIC SPLIT-(PAINTED MEDIAN)



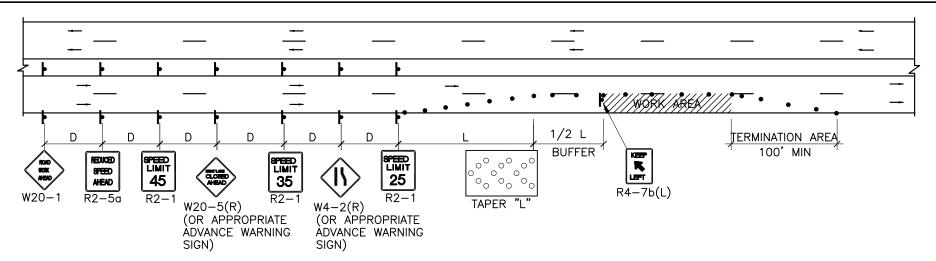
## TRAFFIC SPLIT NOTES:

- 1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
- 2. 1/2 L IS THE MINIMUM DISTANCE FOR SHIFTING TAPERS.
- 3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
- 4. MEDIAN REMOVAL SHALL BE REQUIRED IF 1/2 L OR REVERSE CURVE IS NOT SUFFICIENT.
- 5. MEDIAN REMOVAL SHALL TAKE PLACE BEFORE SPLITS. REDUCED SPEED MAY BE CONSIDERED.
- 6. \*USE W1-3 FOR 30 MPH OR LESS, W1-4 FOR SPEED 35 MPH OR GREATER.
- 7. CLOSE ALL LEFT TURN ACCESS AT ALL CROSS STREETS IN SHIFTING TAPER AREAS.
- 8. TRAFFIC SPLITS NOT RECOMMENDED ON ROADWAYS W/POSTED SPEEDS GREATER THAN 35 MPH.
- 9. FOR EXTENDED PERIODS (OVER 3 DAYS), DOUBLE YELLOW CENTERLINE TAPE SHALL BE ADDED ADJACENT TO VERTICAL PANELS ALONG ROADWAY CENTERLINE.

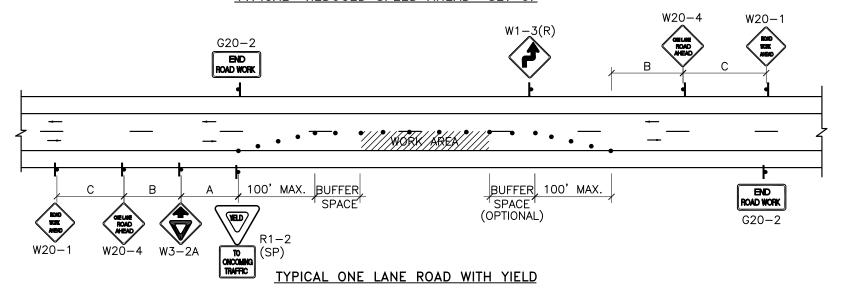
## **GENERAL NOTE:**

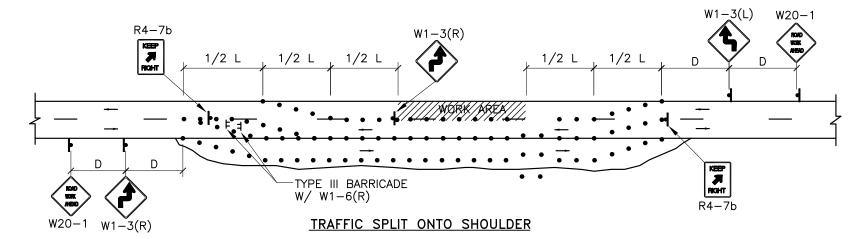
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- 4. ARROW PANEL REQUIRED FOR EACH LANE CLOSURE WITH MULTIPLE LANE CLOSURES ON ARTERIAL AND COLLECTOR STREETS.

REVISIONS	CITY O	F ALBUQUERQUE		
	TEMPORARY TRAFFIC CONTROL			
	TYPICAL TRAFFIC CONTROL			
	& SIGNING EXAMPLES (REF. MUTCD)			
	DWG. 2807	JANUARY 2003		



## TYPICAL "REDUCED SPEED AHEAD" SET UP





## NOTES:

- SHOULDER AREA MUST BE GRADED, LEVEL AND SURFACED PER SECTION 1200.5.6
- . LANE WIDTHS SHALL BE MAINTAINED AT 11 FEET MINIMUM.
- . SHOULDER MUST HAVE ADEQUATE "CLEAR ZONE".
- TRAFFIC SPLITS ONTO SHOULDERS SHALL NOT EXCEED THREE DAYS.

#### SUGGESTED ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS			
	Α	В	С	
URBAN (LOW SPEED)	200	200	200	
URBAN (HIGH SPEED)	350	350	350	
RURAL	500	500	500	
EXPRESSWAY/FREEWAY	1,000	1,600	2,600	

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	TEMPORARY TRAFFIC CONTROL			
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	& SIGNING EXAMPLES (REF. MUTCD)			
	DWG. 2808 JANUARY 2003			